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International Application No.	
International Filing Date	
Name of receiving Office and *PCT International Application*	
Form - DCT/PO/101 PCT Population	
1	
Frepared Using	PCT-EASY Version 2.92
Dazai	(updated 01.11.2003)
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
Applicant's or agent's file reference	PU4962WO
Title of invention	CCR5 ANTAGONISTS AS THERAPEUTIC AGENTS
Applicant	
This person is:	applicant only
Applicant for	all designated States except US
Name	SMITHKLINE BEECHAM CORPORATION
Address:	One Franklin Plaza
	Philadelphia, PA PA
	United States of America
State of nationality	us
State of residence	us
Telephone No.	919-483-2370
Facsimile No.	919-483-7988
Applicant and/or inventor	
This person is:	applicant and inventor
Applicant for	US only
Name (LAST, First)	KAZMIERSKI, Wieslaw, Mieczyslaw
Address:	GlaxoSmithKline
	Five Moore Drive
	PO Box 13398
	IN WIND AND AND AND AND AND AND AND AND AND A
	Research Triangle Park, NC 27709
	Research Triangle Park, NC 27709 United States of America
State of nationality	Research Triangle Park, NC 27709 United States of America US
	Name of receiving Office and 'PCT International Application'  Form - PCT/RO/101 PCT Request Prepared using  Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty Receiving Office (specified by the applicant)  Applicant's or agent's file reference Title of invention  Applicant This person is: Applicant for Name Address:  State of nationality State of residence Telephone No. Facsimile No.  Applicant and/or inventor This person is: Applicant for Name (LAST, First)



111-2	Applicant and/or inventor	
111-2-1	This person is:	applicant and inventor
111-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	AQUINO, Christopher, Joseph
111-2-5	Address:	GlaxosmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
		United States of America
111-2-6	State of nationality	US
111-2-7	State of residence	us
111-3	Applicant and/or inventor	
111-3-1	This person is:	applicant and inventor
111-3-2	Applicant for	US only
111-3-4	Name (LAST, First)	BIFULCO, Neil
111-3-5	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
		United States of America
111-3-6	State of nationality	us
111-3-7	State of residence	US
111-4	Applicant and/or inventor	
111-4-1	This person is:	applicant and inventor
111-4-2	Applicant for	US only
111-4-4	Name (LAST, First)	BOROS, Eric, Eugene
111-4-5	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
111-4-6	State of nationality	United States of America
111-4-7	State of nationality State of residence	US
		US
III-5 III-5-1	Applicant and/or inventor	
	This person is:	applicant and inventor
111-5-2	Applicant for	US only
111-5-4	Name (LAST, First)	CHAUDER, Brian, Andrew
111-5-5	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
111-5-6	State of policyality	United States of America
111.3.0	State of nationality	ICA
111-5-7	State of residence	us





111-6	Applicant and/or inventor	
III-6-1	This person is:	applicant and inventor
111-6-2	Applicant for	US only
111-6-4	Name (LAST, First)	CHONG, Pek, Yoke
1	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
		United States of America
111-6-6	State of nationality	MY
111-6-7	State of residence	US
111-7	Applicant and/or inventor	
111-7-1	This person is:	applicant and inventor
III-7-2	Applicant for	US only
111-7-4	Name (LAST, First)	DUAN, Maosheng
111-7-5	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
		United States of America
111-7-6	State of nationality	CN
111-7-7	State of residence	us
111-8	Applicant and/or inventor	
111-8-1	This person is:	applicant and inventor
111-8-2	Applicant for	US only
111-8-4	Name (LAST, First)	DEANDA, JR., Felix
111-8-5	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
		United States of America
111-8-6	State of nationality	US
111-8-7	State of residence	us
111-9	Applicant and/or inventor	
111-9-1	This person is:	applicant and inventor
111-9-2	Applicant for	US only
III-9-4	Name (LAST, First)	KOBLE, Cecilia, Suarez
111-9-5	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
	1	Research Triangle Park, NC 27709
		Research illangle Fair, MC 27703
	•	United States of America
III-9-6	State of nationality	_





I I	Applicant and/or inventor					
III-10-1	This person is:	applicant and inventor				
III-10-2	Applicant for	US only				
III-10-4	Name (LAST, First)	MCLEAN, Ed, Williams				
III-10-5	Address:	GlaxoSmithKline				
		Five Moore Drive				
		PO Box 13398				
		Research Triangle Park, NC 27709				
		United States of America				
III-10-6	State of nationality	US				
III-10-7	State of residence	US				
(1)-11	Applicant and/or inventor					
111-11-1	This person is:	applicant and inventor				
III-11-2	Applicant for	US only				
111-11-4	Name (LAST, First)	PECKHAM, Jennifer, Poole				
III-11-5	Address:	GlaxoSmithKline				
		Five Moore Drive				
		PO Box 13398				
		Research Triangle Park, NC 27709				
		United States of America				
III-11-6	State of nationality	US				
111-11-7		US				
111-12	Applicant and/or inventor					
	This person is:	applicant and inventor				
III-12-2	Applicant for	applicant and inventor US only				
III-12-2						
III-12-2 III-12-4	Applicant for	US only				
III-12-2 III-12-4	Applicant for Name (LAST, First)	US only PERKINS, Angilique, C				
III-12-2 III-12-4	Applicant for Name (LAST, First)	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398				
III-12-2 III-12-4	Applicant for Name (LAST, First)	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709				
III-12-2 III-12-4 III-12-5	Applicant for Name (LAST, First) Address:	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America				
III-12-2 III-12-4 III-12-5	Applicant for Name (LAST, First) Address: State of nationality	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US				
III-12-2 III-12-4 III-12-5 III-12-6 III-12-7	Applicant for Name (LAST, First) Address: State of nationality State of residence	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America				
III-12-2 III-12-4 III-12-5 III-12-6 III-12-7	Applicant for Name (LAST, First) Address:  State of hationality State of residence Applicant and/or inventor	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US				
III-12-2 III-12-4 III-12-5 III-12-6 III-12-7 III-13	Applicant for Name (LAST, First) Address:  State of nationality State of residence Applicant and/or inventor This person is:	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US applicant and inventor				
III-12-2 III-12-4 III-12-5 III-12-7 III-13-1 III-13-2	Applicant for Name (LAST, First) Address:  State of nationality State of residence Applicant and/or inventor This person is: Applicant for	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US applicant and inventor US only				
III-12-2 III-12-4 III-12-5 III-12-6 III-12-7 III-13-1 III-13-2 III-13-4	Applicant for Name (LAST, First) Address:  State of hationality State of residence Applicant and/or inventor This person is: Applicant for Name (LAST, First)	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US  applicant and inventor US only THOMPSON, James, Benjamin				
III-12-2 III-12-4 III-12-5 III-12-6 III-12-7 III-13-1 III-13-2 III-13-4	Applicant for Name (LAST, First) Address:  State of nationality State of residence Applicant and/or inventor This person is: Applicant for	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US  applicant and inventor US only THOMPSON, James, Benjamin GlaxoSmithKline				
III-12-2 III-12-4 III-12-5 III-12-6 III-12-7 III-13-1 III-13-2 III-13-4	Applicant for Name (LAST, First) Address:  State of hationality State of residence Applicant and/or inventor This person is: Applicant for Name (LAST, First)	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US  applicant and inventor US only THOMPSON, James, Benjamin GlaxoSmithKline Five Moore Drive				
III-12-2 III-12-4 III-12-5 III-12-6 III-12-7 III-13-1 III-13-2 III-13-4	Applicant for Name (LAST, First) Address:  State of hationality State of residence Applicant and/or inventor This person is: Applicant for Name (LAST, First)	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US  applicant and inventor US only THOMPSON, James, Benjamin GlaxoSmithKline Five Moore Drive PO Box 13398				
III-12-2 III-12-4 III-12-5 III-12-6 III-12-7 III-13-1 III-13-2 III-13-4	Applicant for Name (LAST, First) Address:  State of hationality State of residence Applicant and/or inventor This person is: Applicant for Name (LAST, First)	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US  applicant and inventor US only THOMPSON, James, Benjamin GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709				
III-12-2 III-12-4 III-12-5 III-12-6 III-13-7 III-13-1 III-13-2 III-13-4 III-13-5	Applicant for Name (LAST, First) Address:  State of nationality State of residence Applicant and/or Inventor This person is: Applicant for Name (LAST, First) Address:	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US  applicant and inventor US only THOMPSON, James, Benjamin GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America				
III-12-2 III-12-4 III-12-5 III-12-6 III-13-7 III-13-1 III-13-2 III-13-4 III-13-5	Applicant for Name (LAST, First) Address:  State of nationality State of residence Applicant and/or inventor This person is: Applicant for Name (LAST, First) Address:  State of nationality	US only PERKINS, Angilique, C GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US  applicant and inventor US only THOMPSON, James, Benjamin GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709				



III-14	Applicant and/or inventor	
III-14-1	This person is:	applicant and inventor
III-14-2	Applicant for	US only
III-14-4	Name (LAST, First)	VANDERWALL, Dana
	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
		United States of America
III-14-6	State of nationality	us
111-14-7	State of residence	US
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	LEVY, David, J
IV-1-2	Address:	GlaxoSmithKline
		Five Moore Drive
		PO Box 13398
		Research Triangle Park, NC 27709
		United States of America
IV-1-3	Telephone No.	919-483-2370
IV-1-4	Facsimile No.	919-483-7988
IV-2	Additional agent(s)	additional agent(s) with same address as
		first named agent
IV-2-1	Name(s)	DEPPENBROCK, Bonnie, L
٧	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AP: BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any
		other State which is a Contracting State
		of the Eurasian Patent Convention and of the PCT
		EP: AT BE BG CHALL CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI
		SK TR and any other State which is a
		Contracting State of the European Patent
		Convention and of the PCT
		OA: BF BJ CF CG CI CM GA GN GQ GW ML MR
		NE SN TD TG and any other State which is
		a member State of OAPI and a Contracting
	1.	State of the PCT





V-2	National Patent													
V-6	(other kinds of protection or treatment,	AE	AG	AL	AM	AT	ΑU	ΑZ	BA	BB	BG	BR	BW	BY
	if any, are specified between	BZ	CA	CH	LI	CN	CO	CR	CU	$\mathbf{C}\mathbf{Z}$	DE	DK	DM	DZ
	parentheses after the designation(s)			EG										ID
	concerned)	IL		IS										
				LV					MN			MZ		NO
		i	-										_	
		NZ		PG	PH		PT				SD	SE		SK
				TJ	TM		TR	TT	TZ	UA	UG	US	UZ	VC
		VN	YU	ZA	ZM	ZW								
V-5	Precautionary Designation Statement													
	In addition to the designations made													
	under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b)													
	all designations which would be													
	permitted under the PCT except any													
	designation(s) of the State(s) indicated under item V-6 below. The applicant													
	declares that those additional													
	designations are subject to confirmation													
	and that any designation which is not													
	confirmed before the expiration of 15 months from the priority date is to be													
	regarded as withdrawn by the applicant													
	at the expiration of that time limit.													
V-6	Exclusion(s) from precautionary designations	NOI	VE											
VI-1	Priority claim of earlier national		***************************************											
VI-1-1	application													
	Filing date	13	De	cemi	ber	20	02	(13	. 12	.20	02)			
VI-1-2	Number	60	/43	3,6	34									
VI-1-3	Country	บร												
VI-2	Priority document request	T			····									
	The receiving Office is requested to	VI.	_1											
	prepare and transmit to the	' -												
	International Bureau a certified copy of the earlier application(s) identified													
	above as item(s):													
VII-1	International Searching Authority	Eu	rop	ean	Pa	ten	t O	ffi	CO	(EP	0)	(IS	A/E	P)
VIII	Chosen								T	`		`		
VIII-1	Declarations Declaration as to the identity of the	┼─	N	umber	ot de	ciaratii	ons		<b> </b>	~·····				
* 11.1-1	inventor	-												
VIII-2	Declaration as to the applicant's	<b>†</b>			······································				<del> </del>					
	entitlement, as at the international filing								l					
	date, to apply for and be granted a patent	İ												
VIII-3	Declaration as to the applicant's	<del> </del>							-	· · · · · · · · · · · · · · · · · · ·				
• • • •	entitlement, as at the international filing	-												
	date, to claim the priority of the earlier	1												
VIII-4	application	1							<b>_</b>					
A (11-4	Declaration of inventorship (only for the purposes of the designation of the	-												
	United States of America)	1												
VIII-5	Declaration as to non-prejudicial	<b> </b>							1			**************************************		
	disclosures or exceptions to lack of								1					
	novelty													



IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	8	=
IX-5	Description	813	_
IX-3	Claims	45	-
1X-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	O	-
IX-7	TOTAL	867	L
	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet		
IX-11	Copy of general power of attorney	reference no. SB	-
		CORP	
IX-12	Statement explaining lack of signature	<b>✓</b>	
IX-17	PCT-EASY diskette		Diskette
IX-18	Other (specified):	POA authorizing D.	
		Levy signature for	
		SB Corp	
IX-19	Figure of the drawings which should accompany the abstract		
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative	2	
		Bonnie I. Deppen	mork
X-1-1	Name (LAST, First)	DEPPENBROCK, Bonnie,	
X-2	Signature of applicant, agent or common representative		
X-2-1	Name (LAST, First)	LEVY, David, J	

#### FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

PU4962WO

#### FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by	
-	the International Bureau	

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0-1	For receiving Office use only International Application No.  Date stamp of the receiving Office			
0-2				
0-4	Date stamp of the receiving Office			
1				
1				
	Form - PCT/RO/101 (Annex)			
V-4-1	PCT Fee Calculation Sheet			
1	Prepared using	PCT-EASY Vers	ion 2.92	
		(updated 01.1	1.2003)	
	Applicant's or agent's file reference	PU4962WO		
	Applicant	SMITHKLINE BE	ECHAM CORPORAT	ION, et al.
	Calculation of prescribed fees	fee amount/multiplier	Total amounts (USD)	
12-1	Transmittat fee	⇔	240	
L	Search fee S	⇔	1,119	
L	International search to be carried out by	EP	-	
12-3	International fee			
I	Basic fee			
	(first 30 sheets) b1	476		
12-4	Remaining sheets	837		
12-5	Additional amount (X)	12		,
12-6	Total additional amount b2	10,044		
12-7	b1 + b2 = B	10,520		
12-8	Designation fees			
	Number of designations contained in international application	99		
12-9	Number of designation fees payable (maximum 5)	5		
12-10	Amount of designation fee (X)	104		
12-11	Total designation fees D	520	`	
12-12	PCT-EASY fee reduction R	-148		
12-13	Total International fee (6+D-R)	⇒	10,892	
12-14	Fee for priority document			
	Number of priority documents requested	1		
12-15	Fee per document (X)	20		
12-16	Total priority document fee P	⇔	20	
12-17	TOTAL FEES PAYABLE (T+S+I+P)	⇔	12,271	
12-19	Mode of payment	authorization	to charge dep	osit account
12-20	Deposit account instructions			
	The receiving Office:	United States	Patent and Tr	ademark
ĺ		Office (USPTO		
12-20- 1	Authorization to charge the total fees indicated above.	✓		

PCT (ANNEX - FEE CALGUATION SHEET)
Original (for SUBMISSION) - printed on 12.12.2003 08:34:49 AM

12-20- 2	Authorization to charge any deficiency or credit any overpayment in the total lees indicated above.	
12-20- 3	Authorization to charge the fee for priority document.	✓
12-21	Deposit account No.	07-1392
12-22	Date	12 December 2003 (12.12.2003)
12-23	Name and signature	DEPPENBROCK, Bonnie, L
		Bonnie L. Deppenbrock

#### **VALIDATION LOG AND REMARKS**

13-2-7	Validation messages Contents	Green? The international application contains no drawings. Please verify.
13-2-9	Validation messages Payment	Green? Please ensure that you have a valid deposit account with the receiving Office selected.

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